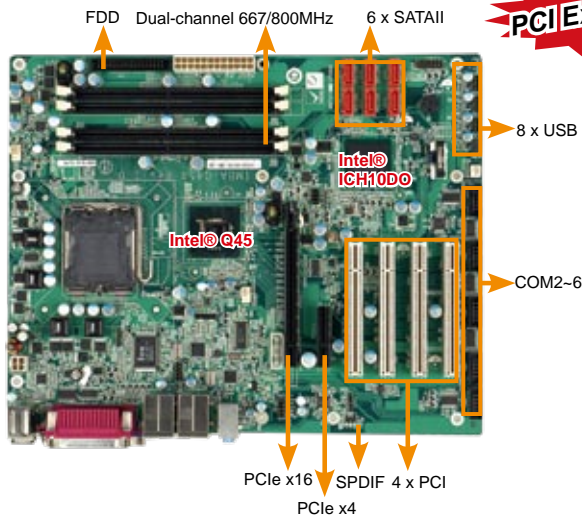


IMBA-Q454

ATX motherboards supports 45nm Intel® LGA775 Core™2 Duo/ Quad with a 1333/1066/800MHz FSB, Dual Intel® GbE, six SATA II with RAID, six COM ports, USB and Audio

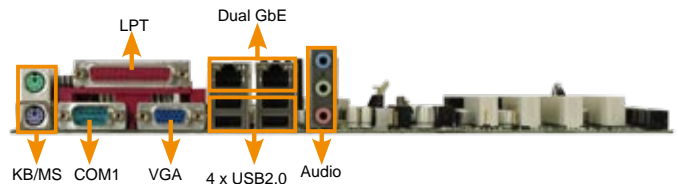


PCI Express 2.0

Intel® Core™2 Quad 45nm Yorkfield/ Wolfdale Processor supported

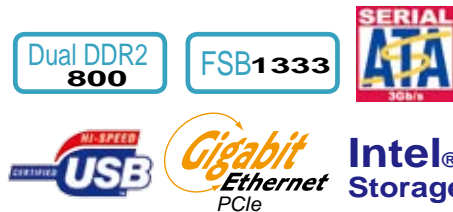
Benefit

- Higher frequency and larger cache within the same power and thermal envelopes as 65nm products
- SSE4 New multimedia instructions
- Enhancements to the Intel®Core™Microarchitecture



Specifications

- ◆ CPU
LGA 775 45nm Intel® Core™ 2 Duo/Quad, Celeron® CPU with a 1333/1066 / 800 MHz FSB
- ◆ System Chipset
Intel® Q45 + Intel® ICH10DO
- ◆ BIOS
AMI BIOS
- ◆ System Memory
Four 240-pin 800/667 MHz dual-channel DDR2 SDRAM DIMM support Up to 8 GB
- ◆ Ethernet Chipset
LAN 1: Intel® 82567LM (iAMT 5.0 supported)
LAN 2: Intel® 82574L
- ◆ IO Interface
6 x RS-232
1 x LPT
12 x USB2.0
2 x PS/2 for KB & MS
1 x VGA
2 x RJ-45
1 x Audio Jack for Line in/Line out/Mic in
- ◆ Expansion
One PCIe x16
One PCIe x4
Four PCI
- ◆ Graphics Integrated
Intel® GMA 4500 support for Microsoft DirectX® 10, Shader Model 4.0 and OpenGL® 2.0
- ◆ Display Output
Analog CRT and PEG x 16
- ◆ Super IO
ITE 8718F
- ◆ Storage
1 x FDD
6 x SATA II (with RAID 0, 1, 5, 10 function)
- ◆ Digital I/O
8-bit (4-bit input / 4-bit output)
- ◆ Audio
Realtek ALC888
- ◆ TPM
iTPM1.2
- ◆ Watchdog Timer
Software programmable supports 1~255 sec. system reset
- ◆ Power Supply
ATX supported
- ◆ FAN connector
1 x 4-pin CPU Fan
1 x 4-pin Chipset Fan
1 x 3-pin System Fan
- ◆ Power Consumption
3.3V@2.64A, 5V@5.4A, 12V@0.28A
(Intel® Core™2 Duo E8500 3.16 GHz with DDR2 800 MHz 2 GB x 4)
- ◆ Temperature
Operation: 0° C ~ 60° C (32° F ~ 140° F)
- ◆ Humidity
Operation: 5% ~ 95%, non-condensing
- ◆ Dimensions
305 mm x 244 mm
- ◆ Weight
GW:1.2 kg / NW:0.6 kg



Features

1. Designed for use with the Intel® Core™2 Quad/Duo processor Q9000/E8000/E7000 series in the LGA775 with a 1333/1066/800 MHz FSB
2. Intel® GbE LAN with iAMT5.0 supported
3. Q45 chipset integrated high performance graphic with DX10 and OpenGL 2.1 supported, external graphic card PCIe 2.0 PEG 1X16 supported
4. PCIe x16 expansion slot and VGA output for dual display supported

Packing List

1 x IMBA-Q454 single board computer
2 x Dual RS-232 cable (P/N: 19800-000051-RS)
6 x SATA cable (P/N: 32000-062800-RS)
1 x I/O shielding (P/N: 45002-450903-00-RS)
1 x Mini Jumper Pack
1 x Utility CD
1 x QIG (quick installation guide)

Ordering Information

Part No.	Description
IMBA-Q454-R10	ATX motherboard supports 45nm Core™ 2 Duo/ Quad with a 1333/1066/800 MHz FSB, Intel® Q45 & ICH10DO platform, dual Intel® GbE, six SATA II with RAID, six COM ports, USB and audio
CF-775A-RS/CF-520-RS	CPU cooler
CB-USB02-RS	Dual USB cable
CB-USB14-RS	Four USB cable
SDVO-100VGA-R10	PCIe x16 VGA output SDVO card support dual display (IEI CPU board only)
SDVO-100DVI-R10	PCIe x16 DVI output SDVO card support dual display (IEI CPU board only)
32200-000017-RS	FDD cable
32100-088600-RS	SATA power cable

1
Industrial
Computing
Solutions

2
Embedded
Computing
Solutions

3
RISC-Based
Embedded
Solutions

4
Industrial
Data
Collector/
Server
Solutions

5
Video
Capture
Solutions

6
I/O
Communication
Solutions

7
Panel
Solutions

8
Power Supply/
Network
Communication/
Peripherals